

# Fig. 1

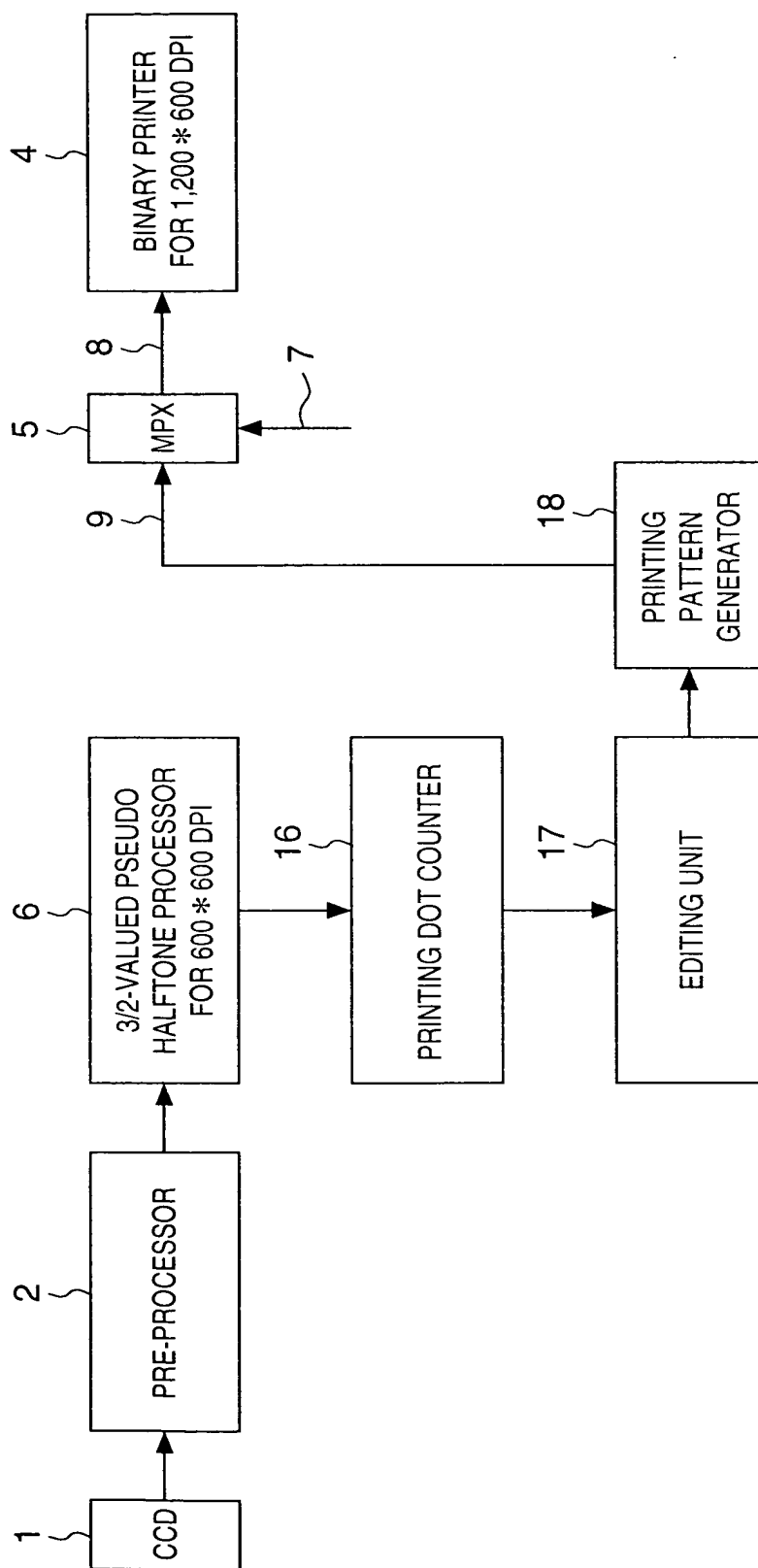
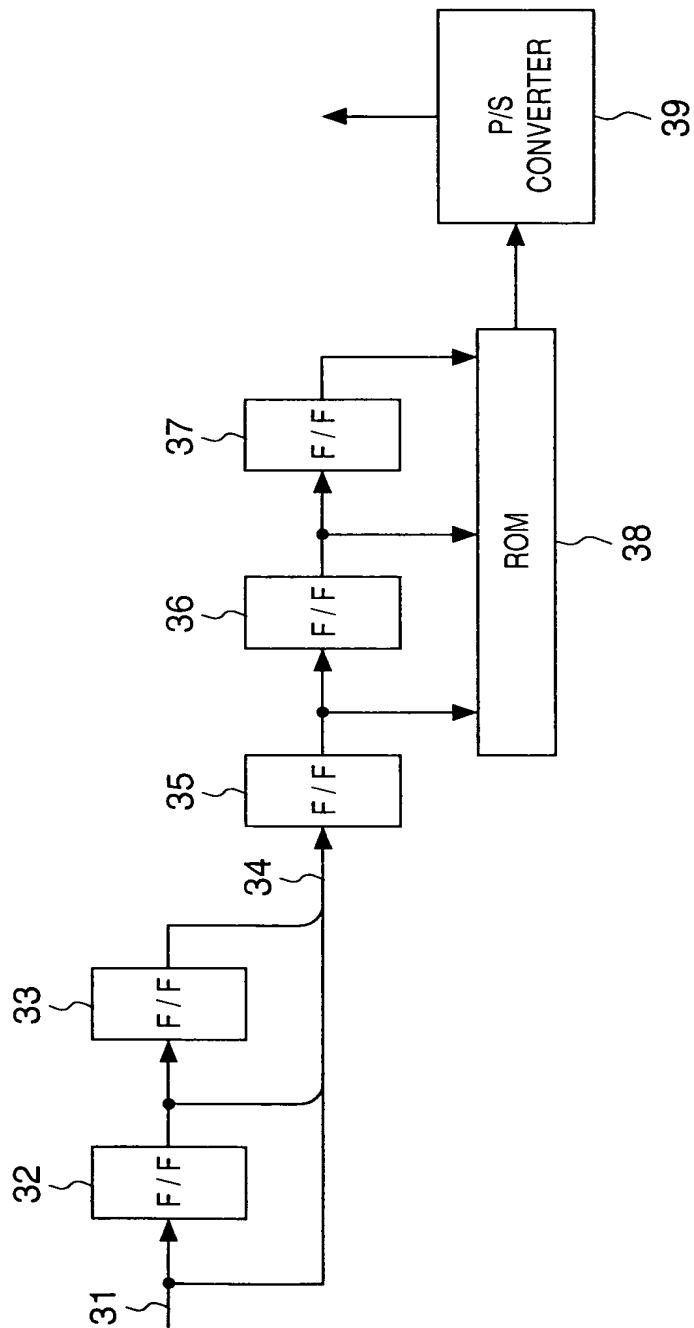


FIG. 2



**FIG. 3**

PATTERN NUMBER	DATA ABOUT THE NUMBER OF BLACK DOTS			PRINTING PATTERN A
	B	A	C	
	0	0	0	○○○○○○○
5				
7	0	1	0	○○○○●○○
5				
10	0	1	3	○○○○●●○
5				
13	0	1	6	○○○○○○●
5				
	0	2	1	○○●●○○○
	0	2	6	○○○○●●●
	0	2	4	○○○○●●○
	3	2	4	○○●●○○○
5				
	0	3	0	○○●●●○○
	0	3	6	○○○○●●●
	4	3	6	○○●●●○○
	4	3	0	○○●●●○○
5				
314	6	2	6	●○○○○○●
5				
321	6	3	6	●●○○○○●
5				
335	6	5	6	○●●●●●
5				
342	6	6	6	●●●●●●

FIG. 4A

A00	A01	A02	A10	A11	A12	A20	A21	A22
B00	B01	B02	B10	B11	B12	B20	B21	B22
C00	C01	C02	C10	C11	C12	C20	C21	C22
D00	D01	D02	D10	D11	D12	D20	D21	D22
E00	E01	E02	E10	E11	E12	E20	E21	E22
F00	F01	F02	F10	F11	F12	F20	F21	F22

ROTATE  
-90°

FIG. 4C

A22	B22	C22	D22	E22	F22
A21	B21	C21	D21	E21	F21
A20	B20	C20	D20	E20	F20
A12	B12	C12	D12	E12	F12
A11	B11	C11	D11	E11	F11
A10	B10	C10	D10	E10	F10
A02	B02	C02	D02	E02	F02
A01	B01	C01	D01	E01	F01
A00	B00	C00	D00	E00	F00

FIG. 4B

ROTATE  
180°

F22	F21	F20	F12	F11	F10	F02	F01	F00
E22	E21	E20	E12	E11	E10	E02	E01	E00
D22	D21	D20	D12	D11	D10	D02	D01	D00
C22	C21	C20	C12	C11	C10	C02	C01	C00
B22	B21	B20	B12	B11	B10	B02	B01	B00
A22	A21	A20	A12	A11	A10	A02	A01	A00

ROTATE  
90°

FIG. 4D

F00	E00	D00	C00	B00	A00
F01	E01	D01	C01	B01	A01
F02	E02	D02	C02	B02	A02
F10	E10	D10	C10	B10	A10
F11	E11	D11	C11	B11	A11
F12	E12	D12	C12	B12	A12
F20	E20	D20	C20	B20	A20
F21	E21	D21	C21	B21	A21
F22	E22	D22	C22	B22	A22

FIG. 5

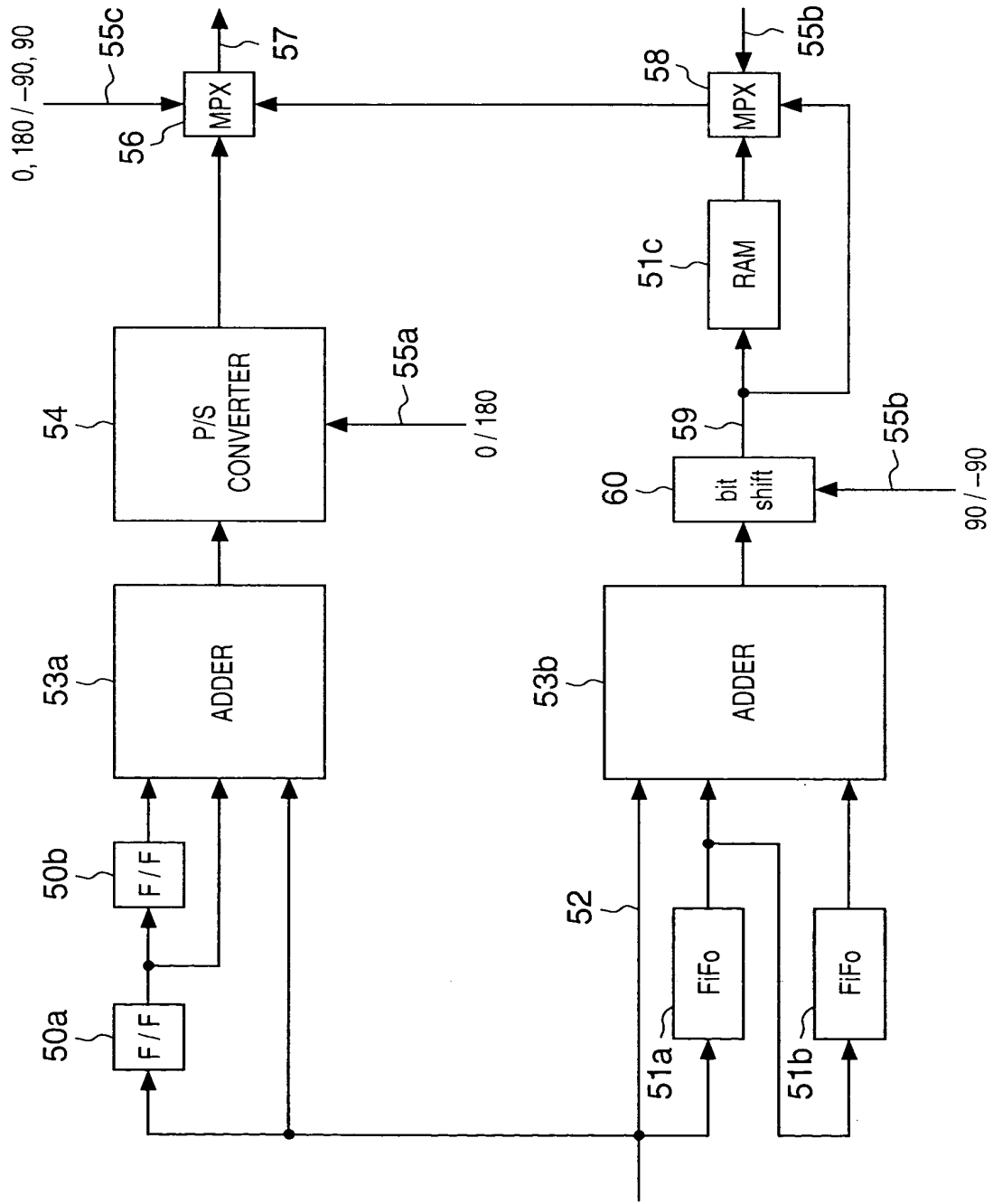


FIG. 6

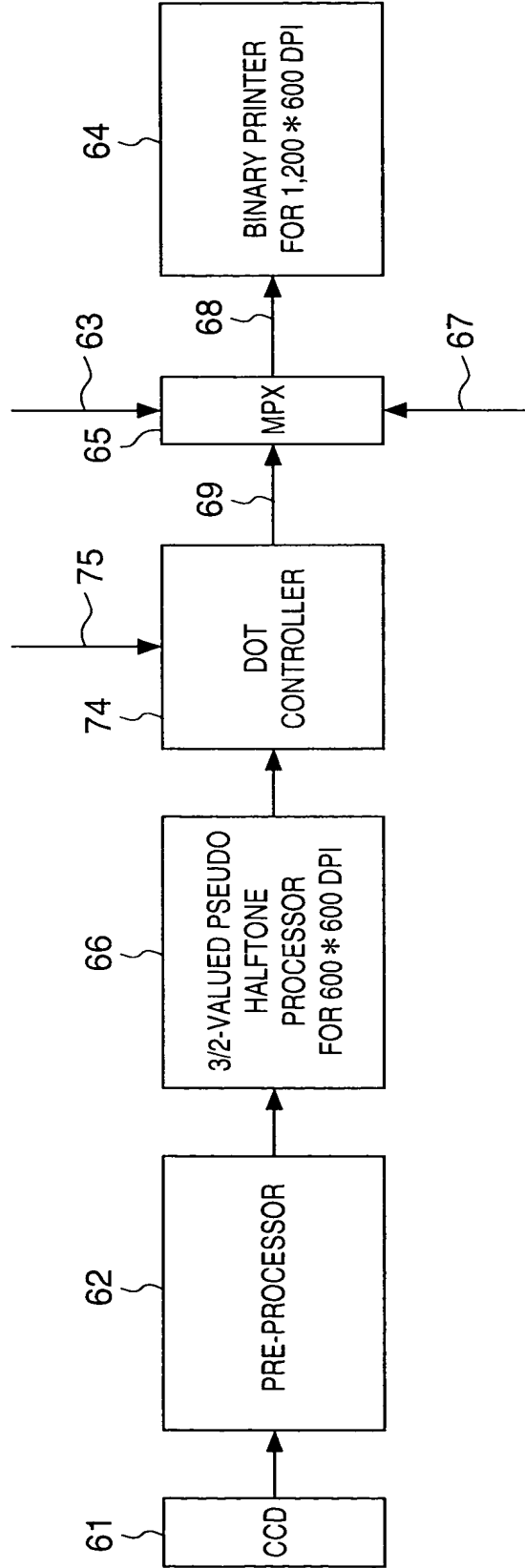


FIG. 7

PATTERN NUMBER	MULTIVALUED DATA			PRINTING PATTERN
	$3n$	$3n + 1$	$3n + 2$	
1	0	0	0	○○○○○○○
2	0	0	1	○○○○○●
3	0	1	0	○○○●○○○
4	1	0	0	○●○○○○○
5	0	1	1	○○○●●○○
6	1	1	0	○●●○○○○
7	1	0	1	●○○○○○●
8	1	1	1	○●●●○○○
9	0	0	2	○○○○●●
10	0	2	0	○○●●○○○
11	2	0	0	●●○○○○○
20	2	0	2	●●○○●●●
21	1	2	1	○●●●●○
22	0	2	2	○○●●●●
27	2	2	2	●●●●●●